

Form PTO-1449

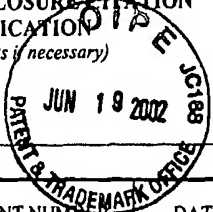
**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)  
MTV-036.01 (20021-3601)

Application Number  
10/060,048

Applicant  
Stephanopoulos et al.

Filing Date  
January 29, 2002

Group Art Unit  
1645-1631

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CSM	AA US 4,563,419	01/07/86	Ranki et al.	435	6	RECEIVED JUN 24 2002 TECH CENTER 1600/2900
	AB US 4,751,177	06/14/88	Stabinsky	435	6	
	AC US 5,143,854	09/01/92	Pirrung et al.	436	518	
	AD US 5,424,186	06/13/95	Fodor et al.	435	6	
	AE US 5,556,752	09/17/96	Lockhart et al.	435	6	
	AF US 5,578,832	11/26/96	Trulson et al.	250	458.1	
	AG US 5,593,839	01/14/97	Hubbell et al.	435	6	
	AH US 5,599,695	02/04/97	Pease et al.	435	91.1	
	AI US 5,631,734	05/20/97	Stern et al.	356	317	
	AJ US 6,051,380	04/18/00	Sosnowski et al.	435	6	
	AK US 6,083,697	07/04/00	Beccher et al.	435	6	
	AL US 6,197,599 B1	03/06/01	Chin et al.	436	518	
	AM US 6,225,047 B1	03/01/01	Hutchens et al.	435	5	
↓	AN US 6,329,209 B1	12/11/01	Wagner et al.	436	518	

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
CSM	AO WO 86/03782	07/03/86	PCT	_____	_____		X
	AP WO 90/01564	02/22/90	PCT	_____	_____		X
	AQ WO 95/22058	08/17/95	PCT	_____	_____		X
	AR WO 97/02357	01/23/97	PCT	_____	_____		X
	AS WO 97/27317	07/31/97	PCT	_____	_____		X
	AT WO 97/29212	08/14/97	PCT	_____	_____		X
↓	AU EP 0 728 520 A1	08/28/96	European Patent Application	_____	_____		X

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[illegible]

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

OTHER DOCUMENTS		(including Author, Title, Date, Pertinent Pages Etc.)
CSM	BA	Aiba et al.; " Sensor and Regulator Proteins from the Cyanobacterium synechococcus Species PCCC7942 that Belong to the Bacterial Signal-transduction Protein Families: Implication in the Adaptive Response to Phosphate Limitation", Molecular Microbiology 8(1): 81-91, ( 1993)
	BB	Aichi et al.; " Role of NtcB in Activation of Nitrate Assimilation Genes in the Cyanobacterium Synechocystis sp. Strain PCC 6803", Journal of Bacteriology, 183(20): 5840-5847, (Oct. 2001)
	BC	Alter et al.; " Singular Value Decomposition For Genome-Wide Expression Data Processing and Modeling", PNAS 97(18): 10101-10106, (August 29, 2000)
	BD	Baier et al.; " Expression of Two nblA-Homologous Genes is Required for Phycobilisome Degradation in Nitrogen-starved Synechocystis sp. PCCC6803" FEMS Microbiology Letters 195:35-39, (2001)
	BE	Bauer et al.; " Activation of NK Cells and T Cells by NKG2D, a Receptor for Stress-Inducible MICA", Science 285: 727-729, (30 July 1999)
	BF	Bhaya et al.; " Isolation of Regulated of the Cyanobacterium Synechocystis sp. Strain PCC 6803 by Differential Display", Journal of Bacteriology, 182(20): 5692-5699, (Oct. 2000)
	BG	Choi and Lee.; " Economic Considerations in the Production of Poly(3-Hydroxybutyrate-co-3-hydroxyvalerate) by Bacterial Fermentation", Appl. Microbiol. Biotechnol. 53:646-649, (2000)
✓	BH	Collier and Grossman.; " A Small Polypeptide Triggers Complete Degradation of Light-Harvesting Phycobiliproteins in Nutrient-Deprived Cyanobacteria", The EMBO Journal 13 (5):1039-1047, (1994)

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1645 1631

CSM	BI	Fujii et al.; "Identification of Neomedin U as the Cognate Ligand of the Orphan G Protein-coupled Receptor FM-3", The Journal of Biological Chemistry, 275(28): 21068-21074, (2000)
	BJ	Golub et al.; "Molecular Classification of Cancer: Class Discovery and Class Prediction by Gene Expression Monitoring", Science 286: 531-537, (15 Oct. 1999)
	BK	Hein et al.; "Synechocystis sp. PCC6803 Possesses a Two-Component Polyhydroxyalkanoic Acid Synthase Similar to that of Anoxygenic Purple Sulfur Bacteria", Arch. Microbiol. 170: 162-170, (1998)
	BL	Hihara et al.; "DNA Microarray Analysis of Cyanobacterial Gene Expression During Acclimation to High Light", The Plant Cell 13:793-806, (April 2001)
	BM	Hirani et al.; "Characterization of a Two-Component Signal Transduction System Involved in the Induction of Alkaline Phosphatase Under Phosphate-Limiting Conditions in Synechocystis sp. PCC 6803", Plan Molecular Biology, 45: 133-144, (2001)
	BN	Holter et al.; "Fundamental Patterns Underlying Gene Expression Profiles: Simplicity from Complexity", PNAS, 97(15): 8409-8414, (July 18, 2000)
	BO	Huckauf et al.; "Stress Responses of Synechocystis sp. Strain PCC 6803 Mutants Impaired in Genes Encoding Putative Alternative Sigma Factors", Microbiology 146: 2877-2889, (2000).
	BP	Hughes et al.; "Functional Discovery Via a Compendium of Expression Profiles", Cell 102: 109-126, (July 07, 2000)
	BQ	Karr et al.; "analysis of Poly- $\beta$ -Hydroxybutyrate in Rhizobium Japonicum Bacteroids by Ion-Exclusion High-Pressure Liquid Chromatography and UV Detection", Applied and Environmental Microbiology, 46(6): 1339-1344, (Dec. 1983)
	BR	Kawamata et al.; "Possible Contribution of Active MMP2 TO Lymph-Node Metastasis and Secreted Cathepsin L to Bone Invasion of Newly Established Human Oral-Squamous-Cancer Cell Lines", Int. J. Cancer, 70: 120-127, (1997)
	BS	Lachenbruch and Mickey; "Estimation of Error Rates in Discriminant Analysis", Technometrics 10(1): 1-11, (February 1968)
	BT	Lee et al.; "Recent Advances in Polyhydroxyalkanoate Production by Bacterial Fermentation: Mini- Review", International Journal of Biological Macromolecules 25: 31-36, (1999)
	BU	Leethanakul et al.; "Gene Expression Profiles in Squamous Cell Carcinomas of the Oral Cavity: Use of Laser Capture Microdissection for the Construction and Analysis of Stage-specific cDNA Libraries", Oral Oncology 36: 474-483, (2000)
	BV	Liu and Steinbuechel; "A Novel Genetically Engineered Pathway for Synthesis of Poly (Hydroxyalkanoic Acids) in Escherichia Coli", Applied and Environmental Microbiology, 66(2): 739-743, (Feb. 2000)
	BW	Miyake et al.; "Polyhydroxybutyrate Production from Carbon Dioxide by Cyanobacteria", Applied Biochemistry and Biotechnology, 84-86: 991-1002, (2000)
	BX	Miyake et al.; "Control of Poly- $\beta$ -Hydroxybutyrate Synthase Mediated by Acetyl Phosphate in Cyanobacteria", Journal of Bacteriology, 179(16): 5009-5013, (August 1997)
✓	BY	Murray et al.; "Cytochrome P450 Expression in Oesophageal Cancer", Gut 35: 599-603, (1994)

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C5M	BZ	Muro-Pastor et al.; "Nitrogen Regulated Group 2 Sigma Factor from <i>Synechocystis</i> sp. Strain PCC 6803 Involved in Survival Under Nitrogen Stress", <i>Journal of Bacteriology</i> , 183(3): 1090-1095, (2001)
	CA	Muro-Pastor et al.; "The NADP+ -Isocitrate Dehydrogenase Gene ( <i>icd</i> ) Is Nitrogen Regulated in Cyanobacteria", <i>Journal of Bacteriology</i> , 178(14): 4070-4076, (July 1996)
	CB	Nathan and Lindquist; "Mutational analysis of Hsp90 Function: Interactions with a Steroid Receptor and a Protein Kinase", <i>Molecular and Cellular Biology</i> , 15(7): 3917-3927, (July 1995)
	CC	Nozaki et al.; "Immunohistochemical Localization of a Urokinase-type Plasminogen Activator System in Squamous Cell Carcinoma of the Oral Cavity: Association with Mode of Invasion and Lymph node Metastasis", <i>Oral Oncology</i> 34: 58-62 (1998)
	CD	Ohyama et al.; "Laser Capture Microdissection-Generated Target Sample for High-Density Oligonucleotide Array Hybridization", <i>Biotechniques</i> , 29: 530-536, (September 2000)
	CE	Park et al.; "Biosynthesis of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate-co-3-Hydroxyhexanoate) by Metabolically Engineered <i>Escherichia coli</i> Strains", <i>Biotechnology and Bioengineering</i> 74 (1): 81-86, (July 5, 2001)
	CF	People and Sinskey, "Poly- $\beta$ -hydroxybutyrate (PHB) Biosynthesis in <i>Alcaligenes eutrophus</i> H16", <i>The Journal of Biological Chemistry</i> , 264(26): 15298-15303, (September 15, 1989)
	CG	Richards et al.; "Coexpression of Interleukin-8 Receptors in Head and Neck Squamous Cell Carcinoma", <i>The American Journal of Surgery</i> , 174: 507-512, (Nov. 1997)
	CH	Richaud et al.; "Nitrogen or Sulfur Starvation Differentially Affects Phycobilisome Degradation and Expression of the <i>nblA</i> Gene in <i>Synechocystis</i> Strain PCC 6803", <i>Journal of Bacteriology</i> 183(10): 2989-2994, (May 2001)
	CI	Schena et al.; "Microarrays: Biotechnology's Discovery Platform for Functional Genomics", <i>TIBTECH</i> , 16: 301-306, (July 1998)
	CJ	Sherlock Gavin; "Analysis of Large-Scale Gene Expression Data", <i>Current Opinion in Immunology</i> , 12(2): 201-205, (April 2000)
	CK	Scheufler et al.; "Structure of TPR Domain-Peptide Complexes: Critical Elements in the Assembly of the Hsp 70-Hsp90 Multichaperone Machine", <i>Cell</i> 101:199-210, (April 14, 2000)
	CL	Slater et al.; "Production of Poly-(3-Hydroxybutyrate-Co-3-Hydroxyvalerate) in a Recombinant <i>Escherichia coli</i> Strain", <i>Applied and Environmental Microbiology</i> , 58(4): 1089-1094, (April 1992)
	CM	Steinbuechel and Fuchtenbusch; "Bacterial and Other Biological Systems for Polyester Production", <i>TIBTECH</i> , 16: 419-427, (1998)
	CN	Strojan et al.; "Prognostic Significant of Cysteine Proteinases Cathepsins B and L and Their Endogenous Inhibitors Stefins A and B in Patients with Squamous Cell Carcinoma of the Head and Neck", <i>Clinical Cancer Research</i> , 6: 1052-1062, (March 2000)
	CO	Szekeres et al.; "Neuromedin U is a Potent Agonist at the Orphan G Protein-Coupled Receptor FM3", <i>The Journal of Biological Chemistry</i> 275(27): 20247-20250, (July 7, 2000)
✓	CP	Tamayo et al.; "Interpreting Patterns of Gene Expression with Self-organizing maps: Methods and Application to Hematopoietic Differentiation", <i>Proc. Natl. Acad. Sci. USA</i> 96: 2907-2912, (March 1999)

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C/M CQ Vallino et al.; "Metabolic Flux Distributions in *Corynebacterium Glutamicum* During Growth and Lysine Overproduction", Biotechnology and Bioengineering, 84: 633-646, (1993)

CR

Van der Straten et al.; "The Heat Shock Protein 83 (Hsp83) is Required for Raf-mediated Signalling in *Drosophila*", The EMBO Journal 16(8): 1961-1969, (1997)

CS

Van Gent et al.; "DNA Binding Properties of the Integrase Proteins of Human Immunodeficiency Viruses Types 1 and 2", Nucleic Acids Research 19(14): 3821-3827, (1991)

CT

Van Gulik and Heijnen; "A Metabolic Network Stoichiometry Analysis of Microbial Growth and Product Formation", Biotechnology and Bioengineering, 48: 681-698, (1995)

CU

Welch L. B.; "The Generalization of 'Student's Problem When Several Different Population Variances are Involved'", Biometrika, 34: 28-35, (1947)

CV

Wen et al.; "Large-Scale Temporal Gene Expression Mapping of Central Nervous System Development", PNAS, USA, 95: 334-339, (January 1998)

CW

Johnson and Wichern; "Canonical Correlation Analysis", Applied Multivariate Statistical Analysis, pp.459-492, Third Edition, (1992)

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EXAMINER

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